

KOLOTYRKIN, Ya.M.; MAKAROV, V.A.; KUZUB, V.S.; TSINMAN, A.I.; KUZUB, L.G.

Anodic protection of heat exchangers made of 1Kh18N9T steel in  
concentrated sulfuric acid at temperatures of 100 - 120°. Zashch.  
met. l no.5:598-600 S-0 '65. (MIRA 18:9)

1, Nauchno-issledovatel'skiy fiziko-khimicheskiy institut imeni  
L.Ya.Karpova, Moskva.

ACC NR: AP7002195

SOURCE CODE: UR/0203/66/006/006/1071/1075

AUTHOR: Kuzubov, F. A.

ORG: Institute of Terrestrial Magnetism, Ionosphere, and Radio Wave Propagation, AN  
SSSR (Institut zemkogo magnetizma, ionosfery, i rasprostraneniya radiovoln AN SSSR)

TITLE: Some properties of medium-wave propagation above uneven terrain

SOURCE: Geomagnetizm i aeronomiya, v. 6, no. 6, 1966, 1071-1075

TOPIC TAGS: radio wave propagation, medium frequency

ABSTRACT: Propagation of medium-length radio waves along statistically uneven terrain is studied. Although different in nature from radio wave propagation over even earth surface, propagation along uneven surfaces can lead to the same changes with distance in the electromagnetic field. Calculation of the average field above ground which has uniformly irregular electrical properties and uneven surface can be reduced to calculation of a field above smooth ground by introducing the apparent parameters  $\sigma_k$  and  $\epsilon_k$  (apparent conductivity and dielectric constant of the ground, respectively). This method is only valid if the heights of the ground irregularities are much smaller than the wavelength ( $d \ll \lambda$ ) and if the slopes of the discontinuities are mild ( $\frac{d}{l} \ll 1$ , where  $l$  is the horizontal length of the irregularities). Measurements of the attenuation made at  $\lambda = 295, 548$  and  $1730$  m confirmed theoretical results. Orig. art. has: 2 figures and 11 formulas.

SUB CODE: 17/ SUBM DATE: 01Jul65/ ORIG REF: 001/ OTH REF: 002  
Card 1/1 UDC: 550.388.2

*Kuzubov, I. I.*

18(57)-25(5) 301/125-39-5-13/16  
 AUTHOR: None Given  
 TITLE: Scientific-Technical Conference on Questions of Welding Engineering  
 PERIODICAL: Avtomaticheskaya svarka, 1959, Vol. 12, No. 5 (74)  
 pp. 92-96

ABSTRACT:  
 The scientific-technical conference on question of welding engineering convened in Khar'kov on March 11-15, 1959. The following organizations convened in the conference: The Scientific-Technical State Committee of the Council of Ministers of the USSR, the Khar'kov Sovnarkom, the Institute of Electric Welding Izmer. No. 0, Paton's Office of the Academy of the Ukraine, the Kavzav and Khar'kov Obzavt Adminstrative NTSO of the machine industry, after the introduction of the Chairman of GNEK USSR, G. P. Kostanko, the conference heard the report of Academician A. M. Paton on the introduction and production of Welding Engineering. After that, the following reports were heard at the conference: Member of Gosplan USSR

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D.I. Polyakov on establishing material engineering bases in the republic of Donets'k; N. V. Yakovlev on the introduction of welding in enterprises of the engineering and machine building area. Chief of the Dnepropetrovsk economic administration, N. A. Kuzubov on the introduction of progressive welding engineering in the enterprises of the Dnepropetrovsk region. Patnikov on successes of the Dnepropetrovsk Construction Factory in introducing welding equipment. Vice Chairman of Sovzavtash, N. I. Frumkin, Institute of Candidate of Technical Sciences J.-I. Frumkin on new work on automatic welding. Iman'tsev, Opatov on new work on automatic welding. Chief of Welding Department of the Kirovograd Heavy Machine Factory V. V. Tsvetkov on the use of "electric glass" welding in heavy machine building. Candidate of Technical Sciences Yu. A. Turzhin spoke on ceramic flux for welding. Chief of Welding Department of Khar'kov Turbine Factory, S.I. German on the use of radioelectric welding in carbon dioxide. Candidate of Technical Sciences P.I. Savbo on new equipment for welding developed by the Institute of Technical Science V.K. Labedev (Institute of Electric Welding Izmer. No. 0). Paton on new work on plasma welding. V.N. Zaytsev on new welding equipment, worked out by VNIIT. Vice Director of the Institute I. A. Antonov. Aragon, Candidate of Technical Sciences I. A. Antonov on recent achievements in the field of flame treatment of metals. Candidate of Technical Sciences N. V. Krasikov (Chair of Technology of Metals at Moscow Institute of Steel and Milk Production) on a new method of vacuum diffusion welding.

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Card 3/3

KUZUBOV, S.A., zasluzhennyj vrach RSFSR; MINNULLIN, P.R.

Giant spermatocele. Urol. i nefr. no.2:62-63 '65.  
(MIRA 19:1)

ZMAGA, P.I., inzh., red.; VOROB'YEV, S.A., kand.tekhn.nauk, red.;  
KALLOV, A.A., inzh., red.; KUZUBOV, V.I., inzh., red.;  
LEONOV, A.Ye., dotsent, red.; TUPITSYN, A.I., kand.tekhn.nauk,  
red.; KHMARO, S.M., kand.tekhn.nauk, red.; DONSKOY, Ya.Ye.,  
red.; KARDASH, G.I., red.; LYALYUK, I.P., red.; LIMANOVA, M.I.,  
tekhn.red.

[Mechanization and automation; collected articles on the  
introduction of mechanization and automation at machinery plants  
in Kharkov] Mekhanizatsiya i avtomatizatsiya; sbornik statei  
ob opyte vnedreniya mekhanizatsii i avtomatizatsii na Khar'kovskikh  
mashinostroitel'nykh zavodakh. Khar'kov, Khar'kovskoe knizhnoe  
izd-vo, 1960. 373 p.  
(Kharkov--Machinery industry) (Automation)  
(MIRA 14:4)

KUZUDZHITSKIY Krum, inzh.

Purification of fecal water by oxidizing ditches. Khidrctekh i  
melior 7 no.3:82-84 '62.

KUZURMAN, A.N.; PLYUSNIN, S.P., instruktor

Improve the design of the KTS-5 crane. Transp.stroi. 9 no.8:  
38-40 Ag '59. (MIMA 13:1)

1. Nachal'nik Chelyabinskoy normativno-issledovatel'skoy  
stantsii. (Cranes, derricks, etc.)

KUZURMAN, A.N.; PLYUSNIN, S.P., instruktor

Mechanized levelling of the overflow prisms of roadbeds.  
Transp.stroi. 10 no.8:26--8 Ag '60. (MIRA 13:8)

1. Nachal'nik Chelyabinskoy nauchno-issledovatel'skoy  
stantseii Orgtransstroya (for Kuzurman).  
(Railroads—Earthwork)

KUZURMAN, A.N.; SAMOKHVALOV, V.V., starshiy inzh.

Using the SSSM-680 derrick instead of a crane. Transp. stroi. 11  
no.2:52-53 F '61. (MITA 14:2)

1. Nachal'nik Chelyabinskoy nauchno-issledovatel'skoy stantsii  
Orgtransstroya (for Kuzurman).  
(Cranes, derricks, etc.)

PAVLIK, Oldrich, inz. (Ostrava); DUPKA, Josef, inz. (Ostrava); KUZUSNIK, Josef (Senov).

High pressure liquid fuel burner. Energetika Cz 14 no.2:  
99-100 F'64.

KUZVART, M.

Report on the exploration of magnesite deposits in Slovakia. p.176.  
VESTNIK, Prague, Vol. 29, no. 4, 1954.

SO: Monthly List of East European Accessions. (EEAL), LC, Vol. 5, No. 6 June 1956, Uncl.

KUZVART, Milos

Geological and petrological conditions of the talc deposits  
and of their surroundings at Kudlita in Slovakia. Milos  
Kuzvart. Slovenská akad. vied, akadem. roč., oddil. geol. 22,  
146-96(1955)(English summary). --The talc deposits etc  
bound to magnesite bodies located at the border-line between  
the garnet-mica schist zone and the phyllite and migmatitic  
zone. Talc occurs in veins several ft. thick, accompanied  
by chlorite-talc-actin (I), "light mica," "dark mica,"  
quartz, and dolomite. Talc was formed in the fissures of  
magnesite by the addn. of  $\text{SiO}_2$  to the hydrothermal solution.  
The purity of talc is higher if more is present. D. Pick.

KUZVART, MIROSLAV

CH  Thermal dehydration of talcs from near Hufsta, Slovakia.  
Miroslav Kuzvari. Věstník střed. súšen. geol. 30, 108-72  
(1959) (English summary).—Talc grades into chlorite-rich  
talc schist. Dehydration curves are given for pure talc,  
leuchtenbergite, and clinochlore, and for mixts. The  
quality of talc samples can be detd. fro' the dehydration  
curve. Michael Fleischer

COUNTRY : Czechoslovakia D  
 CATEGORY :  
 ABS. JOUR. : RZKhim., No. 1959, No. 85791  
 AUTHOR : Kuzvart, M.  
 INST. : Central Institute of Geology  
 TITLE : Talc Deposits at Spišsko-Gererske Rudohori  
 in Slovakia  
 ORIG. PUB. : Sb. Ustredn. ustavu geol. Odd. geol., 1956  
 (1957), 23, No 2, 441-474  
 ABSTRACT : Of the three types of talc deposits associated  
 with serpentinites, dolomites, and magnesites, the first  
 two are considered. In the district of Muranska Dlha Luka  
 serpentinite surrounded by talc occurs as a lenticular  
 body in mica-schist gneiss. Formation of talc took place  
 according to equation:  $2H_4(Mg,Fe)_2Si_2O_6 + 3CO_2 = H_2Mg_3-$   
 $Si_2O_12 + (Mg,Fe)_2CO_3 + 3H_2O$ . The principal active component  
 of the solutions was  $CO_2$ , which resulted at some places in  
 formation of individual dolomite veins. Hydrothermal changes  
 of gneiss are manifested by chloritization. A deposit of  
 talc in dolomites is described in the district of Klsava,  
 where extensive development occurred of green shale formed  
 CARD: 1/2

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928310004-4"

COUNTRY : Czechoslovakia D  
 CATEGORY :  
 ABS. JOUR. : RZKhim., No. 1959, No. 85791  
 AUTHOR :  
 INST. :  
 TITLE :  
 ORIG. PUB. :  
 ABSTRACT : From diabasic tuffites. At the bottom of the  
 profile the dolomite has been converted to magnesite,  
 as a result of metasomatism. here is also found talc the  
 formation of which took place according to the scheme:  
 $(Mg,Fe)_2CO_3 + 2H_2O + 8SiO_2 = Mg_8Si_8O_{26}(OH)_4 + 6CaCO_3 + 6CO_2$   
 Currently, during magnesian metasomatism and regional  
 metamorphism, was formed clinochloritic shale.  
 G. Vorob'yev.

CARD: 2/2

KUZVART, M. ; SUK, M.

"Palevolcanological observations carried out on the Lower Permian extrusion porphyry at Vrani hory in Northeastern Bohemia."

p. 333 (Central Geologic Institute, Czechoslovak Academy of Sciences) Vol. 32, no 5, 1957

SO: Monthly Index of East European Accession (EEAI) LC, Vol. no. 5, May 1958

KUZVART, Milos

Commemorating the 60th birthday of Academician Jaromir Koutek.  
Cas min geol 7 no.3:367-368 '62.

KONTA, I., [Konta, J.]; KUZVART, M., [Kuzvart, M.]; BENESHOVA, Z.  
[translator]

Laterites and bauxites in Czechoslovakia. Kora vyvetr. no.5:  
138-156 '63. (MIRA 16:7)

1. Karlov universitet, Praga.  
(Czechoslovakia—Laterite)  
(Czechoslovakia—Bauxite)

KUZVART, Milos, RNDr., kandidat geologicko-mineralogickych ved  
Geology and deposits of the Mongolian People's Republic.  
Geol Pruzkum 5 no.11:323-325 N '63.  
1. Karlova universita, prirodovedecka fakulta, Praha.

L 56492-65  
ACCESSION NR: AP5017800

UR/0286/65/000/011/0031/0031  
631.859.12.002.2

AUTHOR: Karatayev, I. I.; Mel'nik, B. D.; Repenkova, T. G.; Sviridova, A. G.; Doktorov, N. I.; Nazarov, G. N. Raygorodskiy, I. M.; Vasil'yev, B. T.; Bystrov, M. V.; Babaryka, I. F.; Kuzyak, F. A.; Fel'dman, M. V.; Soverchenko, D. A.; Buslakova, L. P.; Toroptseva, N. P.; Lyubimov, S. V.; Ul'yanov, A. T.; Andres, V. V.; Sobchuk, Yu. I.; Tsatrina, M. M.; Andreyev, V. V.; Kramer, G. L.

TITLE: A method for producing phosphoro-potassium fertilizers. Class 10, No. 171-409

SOURCE: Byulleten' izobretensiy i tovarnykh znakov, no. 11, 1965, 31

TOPIC TAGS: fertilizer, phosphate, potassium

ABSTRACT: This Author's Certificate introduces a method for producing phosphoro-potassium fertilizers using cement dust (waste from cement production) as the potassium raw material. The process of adding potassium to the product is simplified and evaporation is prevented by using a 20% excess of an acid which directly neutralizes the cement dust for breaking down the phosphate raw material.

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L 56492-65  
ACCESSION NR: AP5017800

ASSOCIATION: none

SUBMITTED: 29Mar62

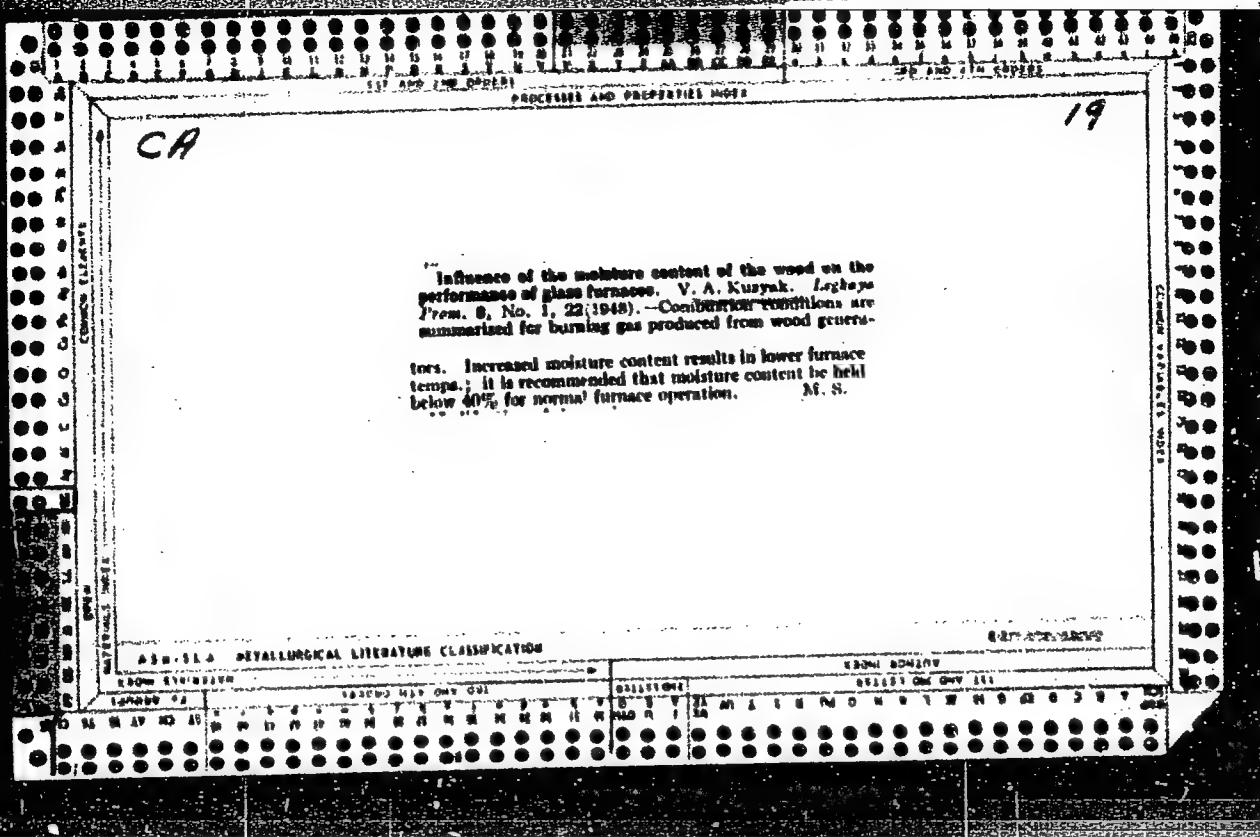
ENCL: 00

SUB CODE: GC, LS

NO REF Sov: 000

OTHER: 000

2/2



KUZYAK, V.A.; VOLKOV, I.I., retsenzent; PLEMYANNIKOV, M.N., redaktor;  
NEKRASOVA, O.I., tekhnicheskij redaktor

[Kilns for annealing glass] Pechi dlja otzhiga stekla. Moskva,  
Gos. nauchno-tekhn. izd-vo legkoi promyshlennosti, 1952. 152 p.  
[Microfilm] (MIRA 7:10)  
(Kilns) (Glass manufacture)

KILNS, U.S.A.

GINZBURG, David Borisovich, doktor tekhnicheskikh nauk; DMLIKISHKIN, Sergey Nikolayevich, kandidat tekhnicheskikh nauk; KHODOROV, Yevgeniy Iosifovich, kandidat tekhnicheskikh nauk; CHIZHSKIY, Anatoliy Fedotovich, kandidat tekhnicheskikh nauk; ZIMIN, V.N., dotsent, retsenzent; KUZYAK, V.A., dotsent, retsenzent; NOKHRATYAN, K.A., kandidat tekhnicheskikh nauk, retsenzent; IVANOV, A.N., dotsent, retsenzent [deceased]; BUDNIKOV, P.P., redaktor; PRADKIN, A.Ye., kandidat tekhnicheskikh nauk, nauchnyy redaktor; GOL'DENBERG, L.G., inzhener, nauchnyy redaktor; GLEZAROVA, I.L., redaktor; GLADKIH, N.N., tekhnicheskiy redaktor

[Furnaces and driers in the silicate industry] Pechi i sushila silikatnoi promyshlennosti. Izd. 2-eo, perer. Pod red. P.P.Budnikova. Moskva, Gos. izd-vo lit-ry po stroit. materialam, 1956. 455 p.  
(MIRA 10:3)

1. Deystvitel'nyy chlen Akademii nauk USSR (for Budnikov)  
(Kilns) (Clay industries)  
(Drying apparatus)

KUZYAK, V.A.

Recuperative glass-melting tank furnaces. Stek. i ker. 13 no.12;  
1-5 D '56. (MLRA 10:2)

1. Leningradskiy tekhnologicheskiy institut im. Lensoveta.  
(Glass manufacture) (Furnaces)

AUTHOR: Kuzyak, V. A. SOV/72-58-11-5/15

TITLE: Supplementary Electrical Heating of Metals in Reverberatory Tank Furnaces (Dopolnitel'nyy elektronagrev steklomassy v plamennykh vannykh pechakh)

PERIODICAL: Steklo i keramika, 1958, Nr 11, pp 12 - 16 (USSR)

ABSTRACT: The specific metal output can be increased by intensifying the temperature conditions in the furnace. In figure 1 are shown curves of the dependence of the production increase in output upon the temperature of the furnace. The author refers to the paper by M. G. Stepanenko (Ref 1). Figure 2 shows the dependence of the increase in the heat content upon the furnace temperature. The amount of heat to which the metal is exposed can be increased by a supplementary electrical heating of the metal. This method of heating has the following advantages: the additional heating can be applied to any desired section of the furnace; the temperature of the metal can be increased without increasing the temperature of the atmosphere in the furnace, which is a very critical factor in maintaining the stability of the heat-resistant furnace walls; the efficiency of the electri-

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Supplementary Electrical Heating of Metals in  
Reverberatory Tank Furnaces

S07/72-58-11-5/15

cal heating is almost double that of the flame heating. The additional electrical heating of the metal takes place by connecting the metal into an electric circuit. The Moskovskiy khimiko-tehnologicheskiy institut, Institut ispol'zovaniya gaza AN USSR i GIS (the Moscow Chemical-Technological Institute and the Institute of Application of Gas AS UkrSSR and GIS) investigated the mechanics of reverberatory tank furnaces and ascertained the amount of heat which is absorbed by 1 m<sup>2</sup> of the metal surface; they referred to papers by A. A. Sokolov, N. A. Zakharikov, L. S. Pioro and D. B. Ginzburg (Ref 2). The results are given in the table. Figure 3 shows the dependence of the specific capacity of the melting zone of the furnace upon the general increase in the capacity of the furnace. Figure 4 shows the dependence of the necessary capacity of the supplementary electrical heating upon the capacity of the furnace. Plots of change in tension at different specific furnace outputs and different furnace breadths are given in figure 5. Various schematic diagrams of a supplementary electrical heating device in the tank furnace are given in figure 6. There are 6 figures, 1 table, and 6 references, 4 of which are Soviet.

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KUZYAK, V.A.

Cooling glass articles in tunnel annealing furnaces. Stek. i ker.  
18 no.11:4-9 N '61. (MIRA 15:3)  
(Glass manufacture)

KUZYAK, V. A.

PHASE I BOOK EXPLOITATION

SOV/6060

: Vargin, V. V., Professor, ed.

Emalirovaniye metallicheskikh izdeliy (Enameling of Metal Articles). Moscow,  
Mashgiz, 1962. 546 p. Errata slip inserted. 7500 copies printed.

Reviewer: A. S. Ragozin, Engineer; Ed.: M. V. Serebryakova, Engineer; Eds.  
of Publishing House: I. A. Borodulina, A. I. Varkovetskaya, and T. L. Ley-  
kina; Tech. Ed.: L. V. Shchetinina; Managing Ed. for Literature on Machin-  
ery Manufacture (Leningrad Division, Mashgiz): Ye. P. Naumov, Engineer.

PURPOSE: This book is intended for specialists in enameling, technical person-  
nel of plants, and personnel of scientific research laboratories and institutes.  
It can also be used by teachers and students of schools of higher education.

COVERAGE: The book provides a brief discussion on raw materials and proc-  
esses for melting enamels, describes in detail furnaces for melting enamels,

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Enameling of Metal Articles

SOV/6060

and offers some recommendations for selection and calculation of furnaces. A special section [Ch. IV, sect. 8] on heat-resistant coatings is included. A flowsheet is given for centralized production of enamels. The properties and preparation of slips are also comprehensively described. The production of new enameled products such as pipelines, architectural and building materials, and aluminum articles is described. Individual chapters were written both by plant personnel and by technical personnel of scientific research institutes and schools of higher education. [See: Table of Contents.] No personalities are mentioned. There are 638 references, mainly Soviet, with many English and some German.

TABLE OF CONTENTS [Abridged]:

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FOV/6060

PART I. ENAMELING TECHNOLOGY

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PART II. THE TECHNOLOGY OF ENAMELING METAL ARTICLES

Ch. IV. Enameling of Steel Articles (N. S. Smirnov, N. N. Zelenskiy, Ye. M. Oshurkov, B. Z. Pevzner, Ye. A. Antonova, V. V. Luchinskiy, V. P. Vaulin, L. V. Purin, V. V. Vargin, M. M. Karabachinskaya, A. A. Appen, and V. Ya. Lokshin)	102
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BEREZHNOY, A.I.; BRODSKIY, Yu.A.; BRONSHTEYN, Z.I.; VEYNBERG, K.L.;  
GALDINA, N.M.; GLETMAN, B.A.; GINZBURG, D.B.; GUTOP, V.G.;  
GUREVICH, L.R.; DAUVAL'TER, A.N.; YEGOROVA, L.S.; KOTLYAR,  
A.Ye.; KUZYAK, V.A.; MAKAROV, A.V.; POLLYAK, V.V.; POPOVA,  
E.M.; PRYANISHNIKOV, V.P.; SENTYURIN, G.G.; SIL'VESTROVICH,  
S.I., kand. tekhn. nauk, dots.; SOLOMIN, N.V.; TEMKIN, B.S.;  
TYKACHINSKIY, I.D.; SHIGAYEVA, V.F.; SHLAIN, I.B.; EL'KIND,  
G.A. [deceased]; KITAYGORODSKIY, I.I., zasl. deyatel' nauki i  
tekhniki RSFSR, doktor tekhn. nauk, prof., red.; GOMOZOVA,  
N.A., red.izd-va; KOMAROVSKAYA, L.A., tekhn. red.

[Handbook on glass manufacture] Spravochnik po proizvodstvu  
stekla. [By] A.I.Berezhnoi i dr. Pod red. I.I.Kitaigorodskogo  
i S.I.Sil'vestrovicha. Moskva, Gosstroizdat. Vol.2. 1963.  
815 p.

(MIRA 16:12)

(Glass manufacture)

K42 u B, V.S.

PAMFILOV, A.V.; KUZUB, V.S.

Absorption phenomena and the electrodeposition of cadmium.  
Ukr.khim.zhur. 28 no.8:939-944 '62. (MIRA 15:11)

1. Chernovitskiy gosudarstvennyy universitet.  
(Cadmium plating)  
(Absorption)

ZINCHENKO, A.A., nachal'nik mostopoyezda; KUZURMAN, A.N.; PLYUSHNIN, S.P.

Electrothermal tightening of rod reinforcement. Transp. stroi.  
12 no.9:26-29 S '62. (MIRA 16:2)

1. Nachal'nik Chelyabinskoy nauchno-issledovatel'skoy  
stantsii Orgtransstroya (for Kuzurman). 9. Starshiy inzhener  
Chelyabinskoy nauchno-issledovatel'skoy stantsii Orgtransstroya  
(for Plyuskin).

(Concrete reinforcement)

KUZZAKIN, A. F.

"N. A. Bobrinsky, B. A. Kiosnozor and A. F. Kuzjakin, Synopsis of Mammals of the U.S.S.R.  
(p. 125) Rev. by Sepatov, V. V.

SO: Advances in Modern Biology (Uspekhi Sovremennoi Biologii) Vol. XX, No.1, 1945.

KUZYAKIN, A.P.

History of the spreading of the brown rat, its present distribution  
and habitats in the U.S.S.R. Mat. k pozn. fauny i flory SSSR. Otd.  
zool. no.22:22-81 '51. (MIRA 11:3)

(Rats)

USSR/Medicine - Epidemiology, Transmitters May/Jun 52  
of Infectious Diseases

"On the Propagation of Gray Rats in Cities," A. P.  
Kuzyakin

"Byul Mosk Obshch Ispytat Prirody, Otd Biol", Vol LVI,  
No 3, pp 15-26

Discusses in detail propagation of *Rattus norvegicus*  
Berk, fluctuations of rat population from year to year  
as affected by natural enemies, extermination, etc.  
States that in this investigation data from the "Au-  
topsy Journals" of one of the observation stations of  
the Min of Pub Health USSR were used. To this station

223T27

were delivered rodents caught by workers of disin-  
fection bureaus in all districts of a large city lo-  
cated in the central belt of the RSFSR.

223T27

KUZYAKIN, A. P.

KUZYAKIN, A.P.

KUZYAKIN, A.P.

Tasks of zoologists and zoogeographers in carrying out the resolutions of the September Plenum of the Central Committee of the Communist Party of the Soviet Union. Biul. MOIP. Otd. biol. 59 no. 3:3-16 My-Je '54.  
(Zoology) (Veterinary medicine)

(MLRA 7:7)

KUZYAKIN, A.P.

Consideration of ecological features and characteristics of  
nesting areas in the classification of birds. Biul.MOIP.Otd.  
biol. 59 no.6:27-35 '54. (MIRA 8:2)  
(Birds--Classification)

Kuzyakin, H.P.

KUZYAKIN, H.P.

Introduction of bait methods to control the lesser suslik in south-eastern and Kazakh livestock districts. Trudy probl. i tem.sov.  
no.5:70-71 '55. (MIRA '8:12)

1. Moskovskiy oblastnoy pedagogicheskiy institut  
(Susliks) (Pesticides)

KUZYAKIN, A. P.

Review of V. G. Polezhayev and L. A. Kirin's brochure, "Methods of Rodent Control in Cities," Library of the Sanitary Physician and Epidemiologist, Medgiz, 1955, p 46, by Prof A. P. Kuzyakin, Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, Vol 27, No 9, Sep 56, pp 108-109

The reviewer criticizes a brochure on the subject of rodent control in cities, which mentions a number of useful and accurate general concepts and principles concerning large-scale deratization, but does not cover them in sufficient detail to be of practical assistance to persons working in this field. The decisive role of organs of public health and the necessity for coordinating control measures by various groups are alluded to but not clarified.

It is the reviewer's opinion that slight indication has been given as to how the measures recommended could or should be carried out. Kuzyakin condemns the excessive concern with documentation in the brochure as a complete waste of time and considers that practical information has been neglected.

The methodology proposed in the brochure is also sharply criticized. Chemical and mechanical agents and methods outlined by the authors are considered to be ineffectual or impracticable.

Sum 1258

Kuzyakin, A.P.

Category: USSR/General Division. General Problems. Philosophy.  
Methodology.

A-1

Abs Jour: Referat Zh.-Biol., No 16, 25 March, 1957, 21263

Author : Kuzyakin, A.P.

Inst : not given

Title : On the Theory of Species and Evolution of Species.  
(Closely Related Chiroptera Species in the Aspect of  
Their Historical Development).

Orig Pub: Tashkent, Trudi In-ta zoologiy i parazitologiy, 5, zool. l.  
sb., 1956, 181-231.

Abstract: Based on comparisons of a few measurable indices (8 pairs)  
of close chiroptera forms, the author considers them inde-  
pendent species, while almost all other systematizers regard  
them as subspecies. An amplitude table is presented of varia-  
tions in 9 indices of these 16 forms, which shows that in a  
number of forms according to certain criteria there exists a  
non-conformability with the neighboring species, while others

Card : 1/4

-27-

Category: USSR/General Division. General Problems. Philosophy.  
Methodology.

A-1

Abs Jour: Referat Zh.-Biol., No 16, 25 March, 1957, 21263

it is absent. The number of measured individuals of each form is not stated. Information is furnished on encountering representatives of close species in the same regions and stations. A description is furnished on the areas of dissemination of close species, which showed reciprocal overlapping to a greater or lesser degree. The author considers that members of close "species" pairs originated from one another and that the overlapping of areas is primary, not secondary. The author states his concept of species evolution, denying inter-species struggle: "The facts of interspecies antagonism or interspecies competition are unknown to us." He considers that "indices of wide adaptive significance are developed with no connection with moments of species evolution and without a visible connection with the environment change. They may be developed in a relatively unchanged environment under the in-

Card : 2/4

-28-

Category: USSR/General Division. General Problems. Philosophy.  
Methodology.

A-1

Abs Jour: Referat Zh.-Biol., No .6, 25 March, 1957, 21263

fluence of one or another constantly acting factor." The main error of Ch. Darwin consisted, according to the author, in a lack of comprehension of the fact that the change of characteristics and the origin of species are manifestations of a different order, that one does not follow the other, that no direct connection between these manifestations exists." The process of species evolution is represented as follows: "The species arises intermittently. The female of one species gives birth to an offspring (or to offsprings) of another species, morphologically close, but qualitatively different. The individuals of this newly-arisen species when matured, clearly and with stability differ from their generating species by morphological indications and in the majority of cases are incapable of crossing with their generating species." Editor's note: The author's concepts are very close to the opinions of T.D. Lysenko on problems of species evolution

Card : 3/4

-29-

KUZYAKIN, A.P.

"Methods of controlling rodents in cities." V.G.Polezhaev, L.A.  
Kirin. Reviewed by A.P.Kuziakin. Zhur.mikrobiol.epid. i immun. 27  
no.9:108-109 S '56. (MLRA 9:10)

(RODENT CONTROL)  
(POLEZHAEV, V.G.)  
(KIRIN, L.A.)

KUZYAKIN, A.P.

Semipalmated sandpiper in the eastern part of the Chukchi  
Peninsula. Ornitologija no.2:130-134 '59. (MIR 14:?)  
(Chukchi Peninsula--Sandpipers)

KUZYAKIN, A.P.

Materials on birds with colonial nesting habits. Ich. zap. MOPI  
71:3-23 '59. (MIRA 14:9)

(Uzynkair Island--Birds--Behavior)  
(Orlov Island (Black Sea)--Birds--Behavior)  
(Kilekaran region--Birds--Behavior)

KUZYAKIN, A.P.

Ornithological observations in China. Ornitologija no.3:467-472 '60.  
(MIRA 14:6)  
(China--Ornithological research)

KUZYAKIN, A.P.

Interrelationship between ecology and zoogeography. Vop. ekol.  
4:42-43 '62. (MIRA 15:11)

1. Oblastnoy pedagogicheskiy institut imeni N.K.Krupskoy, Moskva.  
(Zoogeography) (Zoology--Ecology)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928310004-4

KUZYAKIN, A.P.; VTOROV, P.P.

Landscape ornithogeography of the Okhotsk taiga. Ornitologija  
no.6:184-194. '63. (MIRA 17:6)

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000928310004-4"

KUZYAKIN, A.P.

Biology of the marbled murrelet. Ornithologija no.6:315-320  
'63. (MIRA 17%6)

30(1)

AUTHOR:

Kuzyakin, N.I., Engineer

SOV/99-59-9-6/14

TITLE:

Canal Slopes Levelling and Finishing

PERIODICAL:

Gidrotehnika i melioratsiya, 1959, Nr 9, pp 40-43  
(USSR)

ABSTRACT:

When building the canal Severnyy Donets-Donbass, in which the organizations SMU Nr 13 and SMU Nr 6 of the Ukrvodstroy participated, the most difficult problem was how to lay out the canal bed. The trenching for the rubble layer, building of the jamb footing and of the set-off presented many problems. To surmount these difficulties, a special levelling scoop mounted on a metal plate was manufactured, (Fig 2). This scoop permitted an accurate finishing of canal slopes without resorting to any subsequent improvements. The accuracy of slope levelling was  $\pm$  5 cm; the levelling efficiency of the scoop - 70 to 80 sq.m. an hour. To speed up the levelling, the workers of the SMU Nr 13 and of the Zaporozhskiy remontno-mekhanicheskiy zavod (Zaporozh'ye Repair Mechanical Plant), of the

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SOV/99-59-9-6/14

Canal Slopes Levelling and Finishing

Ukrvodstroy have, in record time, manufactured 20 levelling scoops of this type. Simultaneously, new methods of work rationalization -- by applying excavators, bulldozers, scrapers, and graders to the canal building -- were employed. Finishing the slopes was done at the same time on both sides of the canal (Figure 4). The work was done in a most satisfactory way and fulfilled considerably ahead of schedule. There are 1 diagram and 5 photographs.

ASSOCIATION: Ukrvodstroy, Kakhovka (Ukrainian Hydro-Construction, Kakhovka)

Card 2/2

KUZYAKIN, Ye.B.; KOGANOVSKIY, A.M.

Dependence of the speed of deposit precipitation on the ionic  
content of waste waters during their defluoridation by lime,  
aluminum sulfate, and polyacrylamide. TSvet.met. 35 no.12:40-42  
D '62. (MIRA 16:2)

(Water—Purification) (Ion exchange)

ACC NR: AP6031589

SOURCE CODE: UR/0189/66/000/003/0035/0039

AUTHOR: Moskvitina, Ye. N.; Kuzyakov, Yu. A.

ORG: Department of Physical Chemistry, Moscow State University (Kafedra fizicheskoy khimii, Moskovskiy gosudarstvennyy universitet)

TITLE: Calculation of vibration spectra of difluoramine and chlorodifluoramine

SOURCE: Moscow. Universitet. Vestnik. Seriya II. Khimiya, no. 3, 1966, 35-39

TOPIC TAGS: difluoramine, chlorodifluoramine, vibration spectrum, vibrational frequency, force field, force constant, FLUORINE COMPOUND, CHLORINE COMPOUND, AMINE

ABSTRACT: The authors have calculated the force fields and the vibrational frequencies of the NF<sub>2</sub>H, NF<sub>2</sub>D and NF<sub>2</sub>Cl molecules. The study was undertaken to determine the force constants of the NF<sub>2</sub> group. The NF<sub>2</sub>H and NF<sub>2</sub>U molecules have a symmetry plane along the N-H and N-Cl bonds, belong to the C<sub>s</sub>, point group, and have six fundamental vibrations four of which are symmetric (A') and two anti-symmetric (A'') in respect to this plane. The following configuration parameters were used: for NF<sub>2</sub>H

$$r_{NH} = 1.025 \pm 0.002 \text{ \AA},$$
$$\angle HNF = 99.8 \pm 0.2^\circ$$

for NF<sub>2</sub>Cl

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UDC: 539.19+541.57

ACC NR: AP6031589

$$r_{\text{HCl}} = 1.79 \text{ \AA};$$

$$\angle F\text{NCl} = 107^\circ$$

The calculation was carried out by a method described by Vol'kenshtein, M. V., Yel'yashevich, M. A., and Stepanov, B. I. (Kolebaniya molekul [Vibrations of Molecules], M.-L., Izd-vo GITTL, 1949). The calculated force constants are given in Tables 1 and 2. The high values of the force constants  $K_{qq}$ ,  $K_{qQ}$ , and  $K_{QQ}$  of the  $\text{NF}_2$  group indicate

Table 1.  
Force constants of molecules  $\text{NF}_2\text{H}$  and  $\text{NF}_2\text{O}$

$k_q$	$k_Q$	$k_a$	$k_\beta$	$k_{qq}$	$k_{qO}$	$k_{qa}$	$k_{q\beta}$	$k_{Q\beta}$	$k_{a\beta}$	$k_{Qa}$
7.80	9.50	2.02	1.50	2.11	2.10	1.20	0.60	0.31	0.07	0

Table 2. Force constants of the molecule  $\text{NF}_2\text{C}$

$k_q$	$k_Q$	$k_a$	$k_\beta$	$k_{qQ}$	$k_{qa}$	$k_{q\beta}$	$k_{Q\beta}$	$k_{a\beta}$	$k_{aQ}$	$k_{QQ}$
7.80	4.42	2.35	1.20	2.00	1.20	1.00	0.30	0.1	0	2.11

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AP6031589

Table 3. Calculated and observed vibrational frequencies  
of NF<sub>3</sub>H, NF<sub>3</sub>D & NF<sub>3</sub>Cl

Vibrations and Symmetry	NF <sub>3</sub> H		NF <sub>3</sub> D		Assignment
	Observed, cm <sup>-1</sup>	Calculated, cm <sup>-1</sup>	Observed, cm <sup>-1</sup>	Calculated, cm <sup>-1</sup>	
v <sub>1</sub> v <sub>2</sub> v <sub>3</sub> v <sub>4</sub>	3193	3194	2354	(2333)	N-H valence
	1307	1261	989	1008	NHF deformation
	972	941	928	972	N-F valence
	500	499	490	(500)	NF <sub>3</sub> deformation
v <sub>5</sub> v <sub>6</sub>	1424	1483	1114	1042	NH <sub>2</sub> F deformation
	888	902	883	888	N-F valence
NF <sub>3</sub> Cl					
v <sub>1</sub> v <sub>2</sub> v <sub>3</sub> v <sub>4</sub>	932	953			N-F valence
	698	694			N-Cl valence
	556	541			FNF deformation
	378	314			FNCI deformation
v <sub>5</sub> v <sub>6</sub>	854	861			N-F valence
	270	290			FNCI deformation

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ACC NR: AP6031589

a considerable mutual effect of the N-F bonds. The values of the observed and calculated vibrational frequencies of  $\text{NF}_2\text{M}$ ,  $\text{NF}_2\text{D}$  and  $\text{NF}_2\text{Cl}$  were found to be in good agreement. (see Table 3). Analysis of the results indicated that: 1) frequencies  $\nu_3$  and  $\nu_6$  of  $\text{NF}_2\text{H}$  and  $\nu_1$  and  $\nu_5$  of  $\text{NF}_2\text{Cl}$  in their parameters are not fully characteristic of the N-F bonds, because of the participation of other bonds and angles in their vibrations; 2) vibrations of the entire  $\text{NF}_2$  group are highly characteristic of the  $\text{NF}_2\text{H}$  and  $\text{NF}_2\text{Cl}$ ; molecules 3) frequencies  $\nu_3$ ,  $\nu_6$  and  $\nu_4$  are very sensitive to changes of numerous force coefficients and are not fully characteristic of the  $\text{NF}_2$  group. Orig. art. has: 2 figures and 4 tables.

[WA-77]

SUB CODE: 21, 20/ SUBM DATE: 07Oct65/ ORIG REF: 006/ OTH REF: 006/

Card 4/4

MESHKOVY, N.P.; KUZYAKIN, Yu.I.; KATYUKHIN, V.Ye.; GGEREDINOV, N.M.

Independent data input on the magnetic drum of the "Ural-2"  
electronic digital computer. Biul.tekh.-ekon.inform.Gos.nauch.-  
issl.inst.nauch. i tekhn.inform. 16 no.10:47-49 '63.  
(MIRA 16:11)

KUZYAKINA, A. P.

Kuzyakina, A. P. -- "Morphological Investigation of the Tendons and Their Sheaths of the Extremities of the Horse." Omsk State Veterinary Inst of the Min Higher Education, Omsk, 1955 (Dissertation for the Degree of Candidate in Veterinary Sciences)

SO: Knizhnaya Letopis', No. 24, Moscow, Jun 55, pp 91-104

UDOVIN, G.M., prof., otv. red.; PERVUKHIN, V.Yu., dots., red.;  
KHLYSTOVA, Z.S., prof., red.; DUNAYEV, P.V., dots.,  
red.; KUZYAKINA, A.P., dots., red.

[Materials of the Histological Conference on the Problem  
'Reactivity and Plasticity of the Epithelium and Con-  
nective Tissue Under Normal Experimental and Pathological  
Conditions' dedicated to the memory of Professor F.M.  
Lazarenko, corresponding member of the Academy of Medical  
Sciences of the U.S.S.R.] Materialy Gistologicheskoi konfe-  
rentsii po probleme "Reaktivnost' i plastichnost' epitelia  
i soedinitel'noi tkani v normal'nykh, eksperimental'nykh i  
patologicheskikh usloviyah," posvyashchennaya pamyati chlena-  
korrespondenta AMN SSSR professaora F.M.Lazarenko. Orenburg,  
Orenburgskii sel'khoz. in-t, 1962. 165 p. (MIRA 17:8)

1. Gistologicheskaya konferentsiya po probleme "Reaktivnost'  
i plastichnost' epiteliya i soedinitel'noy tkani v normal'-  
nykh, eksperimental'nykh i patologicheskikh usloviyah,"  
posvyashchennaya pamyati chlena-korrespondenta AMN SSSR pro-  
fessaora F.M.Lazarenko. Orenburg, 1960. 2. Orenburgskiy sel'skokho-  
zyaystvennyy institut (for Udobin, Kuzyakina). 3. Orenburgskiy  
meditsinskiy institut (for Khlystova, Dunayev).

KUZYAKINA, O., kand.tekhn.nauk; GLAZKOVA, S., inskr.

Partial replacement of the cement in concrete and reinforced  
concrete elements with fly ash from burning brown coal at the  
Alesandrovskaia Thermal Electric Plant. Bud.mat.i konstr. 4  
no.6:30-33 N-D '62. (MIRA 15:12)  
(Ukraine--Fly ash) (Lightweight concrete)

KUZYAKINA, YE. B.

Kuzakina, Ye. B. "Improving the water resistance of anhydrite cement," Izvestiya Kiyevsk. politekhn. in-ta, Vol. VIII, 1948 (on cover: 1949), p. 299-311

SO: U-5241, 17 December 1953, (Letopis 'Zhurnal'nykh Statey, No. 26, 1949)

KUZYAKINA, YE. S.

Alunite

Alunite rocks - new prospect for raw materials  
in the ceramic industry. Stek. i ker., 9, No.  
6, 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASSIFIED.

KUZYAKINA, Ye.R., kandidat tekhnicheskikh nauk.

Concrete spraying for the reinforcement of mine stopes. Gor. zhur.  
no. 3:44-47 Mr '57. (MIRA 10:4)

1. VNIIOMpromshilstroy, Kiyev.  
(Mining engineering) (Concrete)

RIZARV, M.V.

PRIKHOD'KO, A.F.

24(7) p 3 PHASE I BOOK EXPLOITATION Sov/1365  
 L'vov. Universitet

Materialy 1 Vsesoyuznogo soveshchaniya po spektroskopii. t. 1:  
 Molekul'arnaia spektroskopiya (Papers of the 10th All-Union  
 Conference on Spectroscopy. Vol. 1: Molecular Spectroscopy)  
 [L'vov] Izd-vo L'vovskogo univ-ta, 1957. 499 p. 4,000 copies  
 printed. (Series: Itse Fizichnyi zhurny, vyp. 3/8/)

Additional Sponsoring Agency: Akademiya nauk SSSR, Komissiya po  
 spektroskopii. Ed.: Gazar, S.L.; Tech. Ed.: Saren'yuk, T.V.;  
 Editorial Board: Landsterg, G.S., Academician (Resp. Ed., Deceased),  
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 Candidate of Physical and Mathematical Sciences, Miliyanchuk, V.S.,  
 Candidate of Physical and Mathematical Sciences, and Glauberman,  
 A. Ye., Candidate of Physical and Mathematical Sciences.

Card 1/30

Kolesova, V.A. Vibrational Spectra of Double-component Phosphate Glasses and Some Crystalline Phosphates	461
Mal'tsev, A.A., Ye. N. Moskvitina, and V.M. Tatevskiy. Study of the Isotopic Effect and Verification of Infrared Spectrum of Boron Trifluoride	465
Mal'tsev, A.A., Ye. N. Moskvitina, and V.M. Tatevskiy. Quantitative Analysis of Boron Isotopes by Means of Infrared spectra of Boron Trifluorides	472
Mal'tsev, A.A., Yu. Ya. Kurnakov, and V.M. Tatevskiy. Study of Electron Spectra and Isotopic Effect in Boron Oxygen Compounds	475
Mal'tsev, A.A., V.G. Vinokurov, and V.M. Tatevskiy. Study of Electron Spectra and Isotopic Effect in Boron Oxygen Compounds	480

Card 29/30

83635

S/081/60/000/015/001/01<sup>4</sup>  
A006/A001

5.2400A

Translation from: Referativnyy zhurnal, Khimiya, 1960, No. 15, p. 15, # 60232

AUTHORS: Mal'tsev, A.A., Kuzyakov, Yu.Ya., Tatevskiy, V.M. (I)  
Mal'tsev, A.A., Vinokurov, V.G., Tatevskiy, V.M. (II)TITLE: // Study of Electron Spectra and of the Isotopic Effect in Oxygen  
Boron Compounds. II.  $\beta$ -Bands of BO Molecules. II. "Boric Acid"  
Bands

PERIODICAL: Fiz. sb. L'vovsk. un-t, 1957, No. 3 (8), pp. 475-480; 480-485

TEXT: I. A  $\Delta\Phi C-3$  (DFS-3) spectrograph (2A/mm dispersion) was used to investigate the emission spectrum of BO  $\beta$ -bands ( $B^2\Sigma - X^2\Sigma$  transition) in the arc and a discharge tube with a hot hollow cathode containing  $B_2O_3$ . Rotation analysis of 0 - 0, 0 - 1, 0 - 2, 0 - 3, 1 - 4, 1 - 5, 2 - 5, 2 - 6, and 3 - 4 bands was made, and by the method of least squares the following rotational constants (in  $\text{cm}^{-1}$ ) of the  $B^2\Sigma$  state were obtained:  $B_e = 1.5192$ ,  $\alpha_e = 0.0210$ ,  $D_e = 7.4 \cdot 10^{-6}$  and  $\beta_e = 2.0 \cdot 10^{-6}$ . It is shown that divergence of Sheibe's rotational constant values (Sheibe, Z. Phys., 1930, Vol. 60, p. 74) with those of Djenkins and McKellar (Djenkins, McKellar, Phys. Rev. 1932, Vol. 42, p. 464) Card 1/3

83635

S/081/60/000/015/001/01<sup>4</sup>  
A006/A001

Study of Electron Spectra and of the Isotopic Effect in Oxygen Boron Compounds.  
I.  $\beta$ -Bands of BO Molecules. II. "Boric Acid" Bands

can be explained by the inaccurate treating of experimental data by Sheibe. The method of least squares was used to recalculate Sheibe's data for the  $X^2\Sigma$  state. In all bands spin doubling was observed.

II. Spectrographs with diffraction gratings were used to investigate so-called fluctuation bands of boric acid, located in the 3700 - 6800 Å range. The following spectrum sources were used: a discharge tube with a hot hollow cathode containing boron or boron-anhydride in an atmosphere of He and O<sub>2</sub> mixture, and an oxygen-hydrogen flame into which boric acid solution was introduced. At a high resolution the complicated rotational structure with several edges was observed for the majority of bands. The use of boron concentrated to 85% with a B<sup>10</sup> isotope, allowed the determination of isotope band edges, shifted towards the short-wave side by about 6,5 and 5 Å respectively for bands in the 5450 and 5750 Å range. This result rejects Singh's theory (Singh, N.L., Proc. Indian Acad. Sci., 1949, Vol. A 29, p. 424) who relates the fluctuation bands of boric acid to the BO molecule. According to Singh the isotopic bands must be shifted to the long-wave side by 22 and 44 Å respectively. When introducing to the spectrum source heavy water vapors, no isotopic effect is revealed in the

Card 2/3

83635

S/081/60/000/015/001/014  
A006/A001

Study of Electron Spectra and of the Isotopic Effect in Oxygen Boron Compounds,  
I.  $\beta$ -Bands of BO Molecules, II. "Boric Acid" Bands

fluctuation bands of the boric acid. This indicates the absence of hydrogen in the molecule composition giving rise to these bands. It is assumed that the fluctuation bands of the boric acid belong to the multi-atomic oxygen compound of boron,  $B_xO_y$ .

A. Mal'tsev

Translator's note: This is the full translation of the original Russian abstract.

X

Card 3/3

AUTHORS: Kuzyakov, Yu.Ya. and Tatevskiy, V.M.

SOV/51-5-6-10/19

TITLE: New Bands of the CF Molecule (Novyye polosy molekuly CF)

PERIODICAL: Optika i Spektroskopiya, 1958, Vol 5, Nr 6, p 699 (USSR)

ABSTRACT: Andrews and Barrow (Ref 1) found only 4 bands belonging to the  $A^2\Sigma-X^2\Pi$  transition of the CF molecule: (0,0), (0,1), (1,0), (1,1). Other bands of this system could not be observed because of strong overlapping by complex bands of the CF<sub>2</sub> molecule (Refs 1, 2). Under more stable conditions of an electric discharge through a stream of CF<sub>4</sub> vapour, the present authors were able to decrease considerably the CF<sub>2</sub> band intensities and to measure 9 more bands of the  $A^2\Sigma-X^2\Pi$  transition. Assuming that the edges of the new bands are due to the same branches as in the case of the 4 bands reported earlier, the authors calculated the positions of the zero lines of the 9 bands: (0.2), (0.3), (0.4), (0.5), (0.6), (1.4), (1.5), (1.6), (1.7), observed by the author for the first time and listed in col. 1 of a table on p 599. This table gives the zero lines found experimentally (col. 2) and calculated (col. 3) from the vibrational constants given in Ref 1. The good agreement between the experimental and calculated values confirms the correctness of the vibrational analysis. More precise

Card 1/2

New Bands of the CF Molecule

SOV/51-5-6-10/19

values of the zero lines and the vibrational constants will be published later, when the full analysis of the rotations is complete. Measurements of the fine structure of the (0.2) and (0.3) bands yield the following values of the rotational constants:  $B_2'' = 1.300 \text{ cm}^{-1}$  and  $B_3'' = 1.341 \text{ cm}^{-1}$ . The absence of the transitions with  $v' = 2$  both in the experiments reported in the present paper and those reported by other workers suggests pre-dissociation between vibrational levels  $v' = 1$  and  $v' = 2$  of the  $A''\Sigma$  state. In this case the upper limit of the dissociation energy of the ground state of the CF molecule should not exceed 5.8 eV. This is a complete translation except for the table. References: (1) E.B. Andrews, R.F. Barrow, Proc. Phys. Soc. London, A64, 481, 1951. (2) P. Venkateswarlu. Phys. Rev., 77, 676, 1950.

SUBMITTED: April 12, 1958

Card 2/2

24(7)

SOV/156-59-2-2/48

AUTHORS: Kuzyakov, Yu. Ya., Tatevskiy, V. M.

TITLE: On the Spectrum of the CCl-Molecule (O spektre molekuly CCl)

PERIODICAL: Nauchnyye doklady vysshay shkoly. Khimiya i khimicheskaya tekhnologiya, 1959, Nr 2, pp 233-236 (USSR)

ABSTRACT: The oscillation analysis of the absorption bands of the electric discharge in carbon tetrachloride as suggested by P. Venkatesvarlu (Ref 2) is rejected and a new oscillation analysis is given. Table 1 shows the measured spectral lines and the frequencies in the range of 2713.2 - 2927.7 Å reduced in vacuum. The analysis was made on the basis of the similarity of the bands of CCl and those of the isoelectronic molecules CF, SiF, SiCl on the following assumptions: 1) The investigated bands belong to a  $^2\Sigma - ^2\Pi$ -transition; 2) the ground state of CCl is normal as in the case of CF, SiF and SiCl; 3) on the basis of the general process of the increasing doublet separation in the series SiF - SiCl - SiBr it may be expected that the doublet separation will in the case of CCl be 1.5 - 2 times that of CF ( $77 \text{ cm}^{-1}$ ), i.e. approximately  $130 \text{ cm}^{-1}$ ; 4) the distance between the atoms C and Cl in the diatomic molecule CCl was equated with the distance in  $\text{CCl}_4$ ;

Card 1/2

## On the Spectrum of the CCl-Molecule

SOV/156-59-2-2/48

herefrom follows a rotation constant in the ground state of the CCl-molecule of approximately  $0.6 \text{ cm}^{-1}$ ; 5) following Venkatesvarlu the most intensive group of bands belongs to the sequence  $\Delta v = 0$ . On the basis of the expressions given by R. Mulliken (Ref 4) for the terms of the upper and lower electron state the formula was derived for the  $P_1^-$ ,  $P_2^-$ ,  $Q_1^-$ - and  $Q_2^-$ -branches of the  $^2\Sigma - ^2\Pi$ -transition. The measured distances between the individual bands were in good agreement with the calculated values. The formula for the Q-edges was set up. The doublet splitting amounted to  $A = 118 \text{ cm}^{-1}$ . The dissociation energy of the ground state of the CCl-molecule calculated by means of linear extrapolation proved to be approximately equal to 4.5 ev. There are 1 figure, 2 tables, and 4 references.

PRESENTED BY: Kafedra fizicheskoy khimii Moskovskogo gosudarstvennogo universiteta im. M. V. Lomonosova (Chair of Physical Chemistry, Moscow State University imeni M. V. Lomonosov)

SUBMITTED: July 11, 1958

Card 2/2

24(7)

SOV/156-59-2-3/48

AUTHORS: Kuzyakov, Yu. Ya., Tatevskiy, V. M.

TITLE: On the Spectrum of the Molecule  $\text{CCl}^+$  (O spektre molekuly  $\text{CCl}^+$ )

PERIODICAL: Nauchnyye doklady vysahey shkoly. Khimiya i khimicheskaya tekhnologiya, 1959, Nr 2, pp 237-239 (USSR)

ABSTRACT: The authors investigated the luminescence spectrum of an electric discharge in carbon tetrachloride vapor. On this occasion they found the bands described by Barrow (Ref 1), however, in higher number (10 instead of 4) within the range 2337 - 2341 Å. The method of the experiments carried out by the authors is distinguished from Barrow's method by the fact that the authors used helium as carrier of the electric discharge. The bands were found to belong to the molecule  $\text{CCl}^+$  as the oscillation constants (Table 1) calculated for this molecule according to the Deslaudres formula were in good agreement with the experimental values. The ionization potential of the  $\text{CCl}$ -molecule was determined to amount to 9.5 ev which agrees well with the ionization potentials of  $\text{CO}$  and  $\text{O}_2$  with respect to the order of magnitude. There are 2 tables and 2 references, 1 of which is Soviet.

Card 1/2

On the Spectrum of the Molecule  $\text{CCl}_4^+$

SOV/156-59-2-3/48

PRESENTED BY: Kafedra fizicheskoy khimii Moskovskogo gosudarstvennogo  
universiteta im. M. V. Lomonosova  
(Chair of Physical Chemistry, Moscow State University  
imeni M. V. Lomonosov)

SUBMITTED: July 11, 1958

Card 2/2

SOV/51-7-4-5/32

AUTHORS: Kuzyakov, Yu.Ya. and Tatevskiy, V.I.TITLE: Rotational Structure of the (1--1) and (0--1) Bands in the Spectrum  
of the Carbon Monochloride Molecule

PERIODICAL: Optika i spektroskopiya, 1959, Vol 7, Nr 4, pp 467-471 (USSR)

ABSTRACT: The spectrum of carbon monochloride ( $\text{CCl}$ ) contains a group of bands in the region 2713-2927 Å; they belong to transitions of the  $2\Sigma-2\Pi$  type. In the existing literature (Refs 1-3) only the vibrational structure of these bands is discussed. The present paper gives the first rotational analysis of two bands in the  $\text{CCl}$  spectrum and determination of the rotational constants, corresponding to the ground and excited states. The band spectrum of  $\text{CCl}$  was obtained by means of a diffraction spectrograph DFS-3 (2 Å/mm dispersion in the first order). Only two band sequences ( $\Delta v = 0, +1$ ) are suitable for the rotational analysis. Fig 1 shows the photograph of the bands of the sequence  $\Delta v = 0$ . Fig 2 gives the microphotogram of the  $2\Sigma-2\Pi_{3/2}$  component of the (1--1) band. Values of the line frequencies in various branches and the combination ratios are given in Tables 1 and 2 (all values are in  $\text{cm}^{-1}$ ). The calculated rotational constants were found to be

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SCV/51-7-4-5/32  
Rotational Structure of the (1--1) and (0--1) Bands in the Spectrum of the  
Carbon Monochloride Molecule

$B_1'' = 0.6465 \pm 0.0032 \text{ cm}^{-1}$  for the  $^2\Pi_{3/2}$  state, and  
 $B_0' = 0.6589 \pm 0.0038$ ,  $B_1' = 0.6551 \pm 0.0026 \text{ cm}^{-1}$  for the  $^2\Sigma$  state.  
There are 2 figures, 2 tables and 6 references, 1 of which is Soviet,  
3 English, 1 Indian and 1 translation from English into Russian.

SUBMITTED: February 9, 1959

Card 2/2

5.3100  
5.5310

AUTHORS:

TITLE:

PERIODICAL:

Kuzyakov, Yu. Ya., Tatevskiy, V. M.

Investigation of the Emission Spectrum of a Very Strong  
Electric Discharge Across a Flow of Steam of Carbon  
Tetrachloride

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i  
khimicheskaya tekhnologiya, 1960, Vol. 3, No. 2,  
pp. 293-294

TEXT: The authors used a modified discharge tube by Shyuler (Schueler ?) for the above-mentioned investigation. The electrodes were fed with high voltage from a 220/15,000 volt transformer block. The tube was filled with spectroscopically pure helium. The pressure was 2 - 3 torr. CCl<sub>4</sub> was continuously directed through the tube at 1-2 mm pressure. The emission spectrum was investigated between 1,600 and 10,000 Å. The recordings were made on an apparatus of type DFS-3. Below 2,000 Å, the spectrum was recorded on a vacuum spectrograph of type DFS-5. The

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2066

Investigation of the Emission Spectrum  
of a Very Strong Electric Discharge  
Across a Flow of Steam of Carbon  
Tetrachloride

S/153/60/003/02/14/034  
B011/B003

authors obtained the following results: 1. No spectra whatsoever were observed in the vacuum range and in the range of 7,000 - 10,000 Å. 2. In the ultraviolet spectrum range the known groups of intense bands belonging to the  $\text{CCl}_4$ -molecule were obtained. Furthermore, R. E. Barrow's bands (2,300 Å) were obtained (Ref. 1), which had been ascribed by him to  $\text{CCl}$  or  $\text{CCl}^+$ . 3. In the range of 2,600 Å a continuous background commences which reaches toward the direction of shorter wavelengths, i.e., to about 2,200 Å. 4. In the visible and in the ultraviolet range numerous bands of the  $\text{C}_2$ -molecule were obtained which belong to various transitions. 5. In the 4,050 Å range a band emerges intensely belonging to the  $\text{C}_3$ -molecule. The unclarified band system at 2,300 Å is contrasted toward the direction of greater wavelengths and forms several sequences. The authors used the discharge of another type than that of Barrow and obtained ten bands instead of four, which belong to this system. The latter belongs to the  $\text{CCl}^+$ -molecule. The authors calculated the molecular constants. The dissociation energy  $D_0''$  of the ground state of the  $\text{CCl}^+$ -molecule is  $51,700 \text{ cm}^{-1}$ . The

X

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Investigation of the Emission Spectrum  
of a Very Strong Electric Discharge  
Across a Flow of Steam of Carbon  
Tetrachloride

303.4  
S/153/60/003/02/14/034  
B011/B003

authors found that the oscillation analysis by P. Venkateswarlu (Ref. 2) contains contradictions and is unsatisfactory. A new oscillation analysis for the CCl-molecule which excludes the disadvantages mentioned in Ref. 2 (Refs. 3,4) was obtained by the authors from various analogies. They specify the oscillation constants obtained. Doublet cleavage  $\Delta = 118 \text{ cm}^{-1}$ . The authors refer to the table by Deslandres for the Q-edges of the CCl-molecule. The dissociation energy of the ground state of the molecule is  $\sim 4.5 \text{ ev}$  on the strength of the linear extrapolation. Thus 2 band systems were detected in the ultraviolet range of the spectrum mentioned in the title. These systems are ascribed to the molecules CCl and CCl<sup>+</sup>. The nature of continuous emission between 2,200 - 2,550 Å remained hitherto unclarified. In the discharge of the type used no chlorine bands could be observed. There are 1 table and 4 references, 2 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M. V. Lomonosova; Kafedra fizicheskoy khimii (Moscow State University imeni M. V. Lomonosov; Chair of Physical Chemistry)

Card 3/4

Investigation of the Emission Spectrum  
of a Very Strong Electric Discharge  
Across a Flow of Steam of Carbon  
Tetrachloride

SP665  
S/153/60/003/02/14/034  
B011/B003

SUBMITTED: July 25, 1958

X

Card 4/4

S/051/60/009/002/007/013/XX  
E201/E491

AUTHORS: Kuzyakov, Yu.Ya., Tatevskiy, V.M. and Tunitskiy, L.N.

TITLE: A Rotational Analysis of Boron Monoxide Bands Lying in  
the Vacuum Ultraviolet Region ✓

PERIODICAL: Optika i spektroskopiya, 1960, Vol.9, No.2, pp.156-161

TEXT: Chretien (Ref.1) studied the 1300 to 2100 Å spectra of discharges in  $\text{BF}_3$  with a vacuum spectrograph fitted with a grating of 1 m radius and 8.3 Å/mm dispersion. Chretien found several bands which he ascribed to the BO molecule; the band edges, interpretations and relative intensities are given in Table 1. Later, Zelenskaya and Tunitskiy (Ref.2) reported a discharge spectrum of  $\text{BF}_3$  recorded in the vacuum ultraviolet region with a spectrograph АОС-5 (DFS-5) with a resolving power of 120000 and a dispersion of 2.7 Å/mm. Zelenskaya and Tunitskiy wrongly ascribed the bands in the 1700 to 1900 Å region to a hydrogen compound of boron. More detailed studies showed that Chretien's interpretation was correct. In the present paper the authors analyse the fine structure of the (0, 0) and (1, 0) bands (Chretien's nomenclature). A study of the isotopic shift in the BO bands, carried out in the authors' laboratory by A.A.Mal'tsev and V.M.Tatevskiy, showed that Chretien's interpretation should be corrected so that his (0, 0) and

Card 1/2 ✓

S/051/60/009/002/007/013/XX  
E201/E491

A Rotational Analysis of Boron Monoxide Bands Lying in the Vacuum  
Ultraviolet Region

(1, 0) bands become (1, 0) and (2, 0) respectively. These two bands lie between 1300 and 2100 Å and are due to  $^2\Pi \rightarrow ^2\Sigma$  transitions of the BO molecule; interpretation of the (1, 0) band is given in Table 2 and of the (2, 0) band in Table 3. The rotational constants of the  $^2\Pi$  state were also determined (Table 4). There are 4 tables and 7 references: 2 Soviet, 3 English, 1 Swiss and 1 translation from English into Russian.

SUBMITTED: November 23, 1959

Card 2/2

SHENYABSKAYA, Ye.A.; KUZYAKOV, Yu.Ya.; TATEVSKIY, V.M.

New analysis of the oscillatory structure of the spectrum of titanium monochloride in the region of 4200 Å. Opt. i spektr. 12 no.3: 359-363 Mr '62. (MIRA 15:3)  
(Titanium chloride--Spectra)

S/051/62/013/005/003/017  
E202/E192

AUTHORS: Ovcharenko, I.Ye., and Kuzyakov, Yu.Ya.

TITLE: The bands of the SiCl molecule in the region of  
3220 - 2735 Å

PERIODICAL: Optika i spektroskopiya, v.13, no.5, 1962, 635-641

TEXT: Using detailed experimental data from the zero lines and Deslandres' tables, the authors determined vibrational constants  $\omega_e$ ;  $\omega_{e'e}$  for the  $B^2\Sigma$ ;  $X^2\Pi^{3/2}$  and  $X^2\Pi^{1/2}$  states of the  $Si^{28}Cl^{35}$  and  $Si^{28}Cl^{37}$  molecules, in order to interpret further the bands of the B - X system in the region 2830-2770 Å, and to find in particular reliable vibrational constants for the  $B^2\Sigma$  excited state. The  $SiCl_4$  vapour discharge tube used was of the type used by H. Schüler (Spectrochim. Acta, v.4, 1950, 85). Various types of discharges in the  $SiCl_4$  were tried to embrace the various SiCl bands. Low current density glow discharge was used to isolate the hitherto not described low intensity bands, e.g. an extensive Deslandres series with  $v' = 2$ , and a large number of bands in the isotopic molecule. A special high current density,

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The bands of the SiCl molecule in ...      S/051/62/013/005/003/017  
impulse discharge tube with a central constriction, previously      E202/E192  
described (I.Ye. Ovcharenko, L.N. Tunitskiy, V.I. Yakutin, Optika  
i spektr. 8, 1960, 746), was used in exciting high vibrational  
levels to observe the bands with  $v'' = 8$  and  $v' = 4.5$  - also  
hitherto unobserved. In all, 16 new bands of the B - X system  
of the  $\text{Si}^{28}\text{Cl}^{35}$ , and 21 bands of the isotopic molecules, were  
identified and tabulated, reducing the wavelength in air to wave-  
numbers in vacuum by means of the Kayser tables. The extensive  
transverse  $v' = 2$  series and the bands (3,1), (4,1) and (5,2)  
yielded much higher accuracy in the determination of the  
vibrational constant of the upper excited state  $B^2\Sigma$  and also  
served as a cross-check.  
There are 2 tables.

SUBMITTED: September 14, 1961

Card 2/2

ACCESSION NR: AP4020975

S/0051/64/016/003/0542/0543

AUTHOR: Kuznetsova,L.A.; Kuzyakov,Yu.Ya.; Tatevskiy,V.M.

TITLE: On the electronic absorption spectrum of the NF<sub>2</sub> radical

SOURCE: Optika i spektroskopiya, v.16, no.3, 1964, 542-543

TOPIC TAGS: radical absorption, tetrafluorohydrazine, nitrogen difluoride radical

ABSTRACT: F.A.Johnson and C.B.Colburn (J.Amer.Chem.Soc.83,3043,1961) observed a region of "continuous absorption" near 2600 Å in the spectrum of the products of thermal decomposition of tetrafluorohydrazine (N<sub>2</sub>F<sub>4</sub>), which they attributed to the NF<sub>2</sub> radical. In the present work this region was re-investigated by means of a higher dispersion and resolution instrument (an ISP-28 spectrograph). The tetrafluorohydrazine at different pressures from 5 to 200 mm Hg was heated in an alumnum tube to different temperatures - up to about 750°C - where absorption in the 2600 Å region disappears. The study disclosed that the NF<sub>2</sub> absorption spectrum in the 2600 Å region is actually not continuous but consists of 16 bands. The intensity and sharpness of the bands increase with temperature up to about 300-400°C. The wavelengths of the bands are tabulated, and a set of three microdensitometer traces is

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Contd

ACCESSION NR: AP4020975

reproduced in a figure. The average separation between the bands is about  $390 \text{ cm}^{-1}$ . This frequency is associated with deformation vibrations of the radical. Orig.art. has: 1 figure and 1 table.

ASSOCIATION: none

SUBMITTED: 16Jul63

DATE ACQ: 02Apr84

ENCL: 00

SUB CODE: PH, CH

NREF SOV: 000

OTHER: 001

2/2  
Card

MOSKVITINA, Ye.N.; KUZYAKOV, Yu.Y.

Infrared spectrum and the calculation of the vibrational  
spectrum of the molecule of chlorodifluoramine ( $\text{NF}_2\text{Cl}$ ).  
Vest. Mosk. un. Ser. 2 Khim. 19 no.2:23-25 Mr- $\delta$ p $^2$ 6Z  
(MLRA 1736)

1. Kafedra fizicheskoy chimii Moskovskogo universiteta.

MOSKVITINA, Ye.N.; KUZYAKOV, Yu.Ya.; KNYAZEVA, N.A.; TATEVSKIY, V.M.

Infrared spectrum of tetrafluorohydrazine. Opt. i spektr. 16  
no.5:768-771 My '64. (MIRA 17:9)

41488-65 EWT(a)/EPP(c)/EPR/EWP(t)/EWP(b) Pr-4/Ps-4 IJP(c) JD/JW  
ACCESSION NR: AP5005732 S/0189/65/000/001/0015/0017

AUTHORS: Kuzyakov, Yu. Ya.

Moskvitina, Ye. N.

22

22

3

TITLE: Interpretation of the infrared absorption spectrum of the active isomers of  $N_2F_2$

SOURCE: Moscow. Universitet. Vestnik, Seriya 2., Khimiya, no. 1, 1965, 15-17

TOPIC TAGS: nitrogen compound, fluoride, IR spectrum, absortion spectrum, microwave spectroscopy/ Strala computer

ABSTRACT: This article is mainly a criticism of R. H. Sanborn's conclusions (J. Chem. Phys., 33, 1855, 1960) that the structure of the active isomer of  $N_2F_2$  cannot be explained on the basis of cis-configuration of the fluorine atoms. The authors have examined the frequency of normal oscillation for the "cis"-form of  $N_2F_2$ , which has the symmetry  $C_{2v}$  and has five active oscillations in the IR spectrum. They have tabulated the absorption bands obtained by Sanborn and those obtained by their own microwave spectroscopy. They have also tabulated frequencies on the basis of Sanborn's results and on the basis of their own work. From these

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ACCESSION NR: AP5005732

comparisons it becomes clear that computations give no band in the 550-580  $\text{cm}^{-1}$  interval, and this indicates that Sanborn's view is essentially incorrect. The actual types of oscillation have been computed and tabulated, the computations being made on a Strala computer. "The authors thank Professor V. N. Tatevskiy for valuable advice and remarks offered during work on the present investigation." Orig. art. has: 1 figure and 3 tables. [Abstracter's note: One figure was referred to, but was not included with the article.] 2

ASSOCIATION: Moskovskiy universitet Kafedra fizicheskoy khimii (Moscow University, Department of Physical Chemistry)

SUBMITTED: 22 May 64

ENCL: 00

SUB CODE: OP

NO REF Sov: 000

OTHER: 005

Cord 2/2 mil

MOSKVITINA, Ye.N.; KUZYAKOV, Yu.Ya.

Calculation of the vibrational spectrum of difluoromethylamine  
 $(CH_3NF_2)$ . Zhur. prikl. spektr. 2 no.5:467-469 My '65. (MIRA 18:7)

KUZYAKOV, Yu.Ya.; MOSKVITINA, Ye.N.

Interpretation of the infrared absorption spectra of an active  
isomer of N<sub>2</sub>F<sub>2</sub>. Vest. Mosk. un. Ser. 2: Khim. 20 no.1:15-17  
Ja-F '65. (MIRA 18:3)

1. Kafedra fizicheskoy khimii Moskovskogo universiteta.

L 42872-66 EWT(1)/EWT(m)/T/EWP(+)/ETL LIP(c) ID/ANW/IN/GG/RM  
ACC NR: AR6017231 SOURCE CODE: UR/0058/65/000/012/D031/D031

AUTHOR: Moskvitina, Ye. N.; Kuzyakov, Yu. Ya.; Kotov, Yu. I.; Tatevskiy, V. M.

ORG: none

TITLE: Investigation of infrared spectra and spectra of the Raman effect of  
tetrafluorohydrazine

SOURCE: Ref. zh. Fizika, Abs. 12D249

REF SOURCE: Tr. Komis. po spektroskopii. AN SSSR, t. 3, vyp. 1, 1964,  
197-204

TOPIC TAGS: absorption spectrum, Raman effect, IR spectrum, absorption band,  
tetrafluorohydrazine, hydrazine derivative

ABSTRACT: The infrared absorption spectrum of tetrafluorohydrazine (I) has been  
investigated in the gaseous and the solid phase in the 400—4000-cm<sup>-1</sup> range. The  
spectrum of the Raman effect has been obtained in the gaseous phase. Coincidence

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ACC NR: AR6017231

of oscillation frequency in the spectrum of the Raman effect with the oscillation frequency in the infrared spectrum indicates that molecule I has a configuration corresponding to the symmetry of  $C_2$ . A preliminary interpretation of the absorption bands has been proposed. [Translation of abstract] [NTI]

SUB CODE: 0720 / ~~SURNAME, none~~ / ~~ORIG REF~~ ~~none~~ / ~~SOV REF~~ ~~none~~ /  
~~OTH REF~~ ~~none~~

Card 2/2 *b6b*

22(4)

SOV/132-59-7-14/17

AUTHORS: Kuz'yan, N.Ye., and Ivanovskaya, Z.I.

TITLE: For a Wider Participation of Workers in the Production Management

PERIODICAL: Razvedka i okhrana nedr, 1959, Nr 7, pp 56-58 (USSR)

ABSTRACT: In connection with the decision of the December plenary session of the central committee of the CPSU on the increased role of the Trade-Unions in the struggle for the building of the communist state, the rights of trade-unions in industrial organizations and institutions were considerably widened. The trade-union of geological workers of Eastern Siberia increased its activity. On the initiative of the working team of the Lugovskaya geologorazvedochnaya partiya Mama-Chuyskoy ekspeditsii (Lugovskaya Geological Prospecting Team of the Mama-Chuya Expedition) (Head of the Team - A.V. Smirnov) the Irkutskoye geologicheskoye upravleniye (the Irkutsk Geological Directorate) opened a socialist competition for the creation of a "Fond mineral'nogo syr'ya imeni

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SOV/132-59-7-14/17

For a Wider Participation of Workers in the Production Management

semiletnego plana" ("Fund of Mineral Raw Material Jmeni Seven Year Plan"). Geologists of the Lugovskaya Team promised to increase the reserves of mineral raw materials 40 to 45% more than foreseen for the first year of the Seven Year Plan. This initiative was approved by the board of the East-Siberian Territorial Committee of the Trade-Union, and by the Board of the Irkutsk Geological Directorate. Thirty-two brigades are taking part in this competition. Mining brigades of the Slyudyanskaya ekspeditsiya (Slyudyanka Expedition) led by L.S. Vikhlyayev and T.F. Kravchenko, drilling brigades of the Trest Vostsibneftegeologiya (the Vostsibneftegeologiya Trust) led by drilling masters V.M. Danshin and P.M. Korshunov, and the drilling detachment of the Sogdiondonskaya Team led by V.L. Novopavshin, and many others took a pledge to work, study and live according to communist ideals. On the initiative of the Irkutsk Geological Directorate and the Irkutskaya Oblast' Committee of the VLKSM a komsomol-youth drive for mineral deposits was organized

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For a Wider Participation of Workers in the Production Management

in 1958. More than 20,000 men took part in this drive, and the Irkutsk Geological Directorate is checking about 200 claims of discovery of mineral deposits. This initiative was approved by the Ministerstvo geologii i okhrany nedor SSSR (Ministry of Geology and Conservation of Mineral Resources of the USSR), by the Central Committee of the Trade-Union of Geological and Prospecting Workers and by the Central Committee of VLKSM. This drive will again be repeated in 1959. For the organization of the drive, 27 persons received honorary diplomas, among them the teacher of the Shelekhovo secondary school S.F. Sitnikov, the secretary of the Irkutskaya Oblast' Committee of VLKSM, A.I. Golovnykh, and the head of the Lugovskoye Team of the Mama-Chuya Expedition, V.T. Kilessko. Twenty-four participants received the badge of "Excellent Worker of the Socialist Competition of the Ministry of Geology and Conservation of Mineral Resources of the USSR." Special permanent production conferences have been organized throughout Eastern Siberia, at which plans for a better organization

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SOV/132-59-7-14/17

For a Wider Participation of Workers in the Production Management

of work have been worked out. The production conference of the Irkutskaya geologopoiskovaya ekspeditsiya tresta Vostsibneftegeologiya (the Irkutsk Geological Exploratory Expedition of the Vostsibneftegeologiya Trust) (Chairman - Tsakhnovskiy) discusses all the problems connected with the organization of geological operations, methods of work, etc. The production conference of the Cartographic factory (Chairman - Zdobnikov) is discussing all production problems and the introduction of new working methods, and is examining new rationalizing propositions. New methods introduced by the production conference of the Lugovskaya Geological Prospecting Team permitted a 54% reduction in the price of 1 ton of mica.

ASSOCIATION: Vostochno-Sibirskiy territorial'nyy komitet profsoyuza  
(The East-Siberian Territorial Committee of the Trade-  
Union) (N.Ye. Kuz'yan)

SOV/132-59-7-14/17

For a Wider Participation of Workers in the Production Management

TsK profsoyuza rabochikh geologorazvedochnykh rabot  
(Central Committee of the Trade-Union of Geological  
and Prospecting Workers) (Z.I. Ivanovskaya)

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